

What is claimed is:

1. Harvesting apparatus comprising:
 - a. a frame;
 - b. wheels connected to said frame enabling travel of said apparatus through a growing field of said vegetables; and
 - c. at least one pair of mutually facing movable arrays of finger members carried by said frame for strippedly lifting fruits from plants in said growing fields, said arrays being of generally upstanding longitudinally elongated and substantially planar configuration in the region of their mutually facing.
2. Apparatus of claim 1 wherein each array comprises:
 - a. a plurality of longitudinally elongated horizontal bars;
 - b. a means for adjusting the space between adjacent ones of said longitudinal elongated horizontal bars;
 - c. a plurality of transversely elongated finger members connecting to and extending substantially transversely from said bars; and
 - d. an endless sinuous member connected to said bars for carrying said bars along an endless path, a substantially vertical portion of which path positions said bars so that said fingers attached to said bars extend towards fingers associated with said mutually facing array as said bars travel upwardly along said path and upwardly strip vegetable fruits from fruit bearing plants passing between said mutually facing arrays as said apparatus traverses said growing field.
3. Apparatus of claim 1 further comprising:

- a. means for moving said mutually facing arrays along an endless circular path by advancing said sinuous members therealong;
- b. a plow connected to said frame for lifting and positioning plants for entry into space between said mutually facing arrays; and
- c. means for providing a directionally adjustable air current for lifting and directing harvested fruits or vegetables exiting from between said arrays at the upper extremities thereof towards a collection area.

4. Apparatus of claim 1 further comprising means for vertically adjusting said mutually facing arrays relative to said frame to enable said mutually facing arrays to accommodate therebetween plants growing on uneven surfaces and in varying row heights;

5. Apparatus of claim 1 further comprising a hitch for connecting the frame to a tractor or pulling machine.

6. Apparatus of claim 1 wherein at least some of said wheels inwardly connect to the frame via a wheel assembly comprising a hydraulic piston cylinder combination for vertically adjustably positioning the associated wheel relative to said frame.

7. Apparatus of claim 2 wherein the plurality of longitudinally elongated horizontal bars are positionable at variable spacings along said endless chain.

8. Apparatus of claim 1 further comprising means for adjusting distance of separation between mutually facing arrays.

9. Apparatus of claim 2 wherein said finger members further comprise receptacle means for attaching to elongated horizontal bars.

10. Apparatus of claim 3 wherein the means for supplying energy to propel mutually facing arrays along an endless path comprises a motor.

11. Apparatus of claim 3 wherein the means for providing directionally adjustable air current comprises a high velocity blower.

12. Vegetable or fruit harvesting apparatus comprising:

- a. a frame;
- b. wheels connected to said frame enabling travel of said apparatus through a growing field of said vegetables;
- c. at least one pair of mutually facing arrays of resilient finger members for strippingly lifting fruits from vegetable plants in said growing fields, said arrays being generally upstanding, longitudinally elongated longitudinally converging substantially planar configuration, each array comprising:
 - i. a longitudinally extending endless sinuous member selected from the group consisting of fabric, flexible rubber, metal or a plurality of longitudinally elongated horizontal bars configured to form a sheet-like supporting structure said fingers extending substantially lateral therefrom;
 - ii. means for adjusting width between said mutually facing arrays;
 - iii. means for vertically adjusting said mutually facing arrays relative to said frame to enable said apparatus to function on uneven surfaces and harvest variable row heights;

iv. a plurality of transversely elongated finger members connecting to an extending from said longitudinally extending endless sheet-like sinuous member;

v. an endless sinuous drive member connected to said longitudinally extending sinuous sheet-like member along an endless path, a substantially vertical portion of which path positions said longitudinally extending sinuous sheet-like member so that said fingers attached to said sheet-like member extend towards fingers associated with said mutually facing array as said sheet-like member travels along said path and upwardly strips fruits from plants passing between said mutually facing arrays as said apparatus traverses said growing field;

vi. means for propelling said mutually facing arrays along endless paths defined by said sinuous drive members;

vii. a plow connected to said frame for lifting and positioning plants proximate the space between mutually facing arrays; and

viii. means for providing directionally adjustable air for pneumatically lifting and directing harvested fruits or vegetables exiting an upper portion of said space between said arrays towards a collection area.

13. A method of harvesting comprising:

- advancing a harvester through a growing field;
- scoopingly directing plants towards an opening between mutually facing arrays;

c. advanceably positioning mutually facing movable arrays of resilient finger members on opposite sides of plants containing fruits to be harvested;

d. rotating said mutually facing arrays of resilient finger members whereby one array rotates in a clockwise direction and the other in a counter-clockwise direction and both arrays move upwardly in a region in which said arrays are mutually facing above plants in a growing field from which fruits are to be harvested thereby upwardly sweeping the plants with resilient finger members to strippedly remove fruits from the plants.

14. The method of claim 13 further comprising pneumatically propelling harvested fruits at the upper boundary of where said stripping occurs towards collection device.

15. The method of claim 13 wherein the harvester is advanced by a tractor through the growing field.

16. The method of claim 13 further comprising the optional step of adjusting the spatial width between said mutually facing arrays

17. The method of claim 16 further comprising the optional step of vertically adjusting the clearance of said arrays from the ground.

18. Apparatus of claim 1 further comprising means for independently vertically positioning said arrays relative to said frame for travel through said growing field.

19. Apparatus of claim 1 wherein said finger members are resilient.

20. Apparatus of claim 1 wherein said finger members are elastomeric.

21. Apparatus of claim 1 wherein said finger members are homogeneous.

22. Apparatus of claim 2 wherein said finger members and said bars are of integral, one piece construction.

23. Apparatus of claim 1 wherein said arrays include sheet-like planar portions with pluralities of finger members projecting substantially transversely therefrom.

24. Apparatus of claim 1 wherein said arrays are of integral, one piece molded construction with said finger members and said sheet-like portions be homogeneous.

25. Apparatus of claim 1 wherein said finger members are rigid.

26. Apparatus of claim 1 wherein only some of said finger members are rigid.

27. Apparatus of claim 2 wherein finger members of said two arrays interdigitate in at least a portion of the region in which said arrays are mutually facing.

28. Apparatus of claim 1 wherein said arrays are more proximate one another remote from the position of entry of said fruit-bearing plants between said arrays than at said entry position.

29. Apparatus of claim 1 wherein said facing portions of said arrays are more proximate one another remote from the growing field than at ground level.

30. Apparatus of claim 8 wherein said means for adjusting distance of separation between mutually facing portions of said arrays further comprises means for separately adjusting distance of separation between said arrays at forward and rearward portions thereof.

31. Apparatus of claim 1 further comprising means for adjustably positioning a selected portion of at least one of said arrays to transversely sweep the growing

ground during passage of said apparatus therethrough to brushingly gather detached fallen fruits off of the ground and into the region within which said arrays face one another.

32. The method of claim 13 further comprising transversely sweeping the growing ground during harvester travel thereover to brushingly gather detached fallen fruits off of the ground and into the region within which said arrays face one another.
33. The method of claim 14 wherein said sweeping and brushingly gathering is performed by rotation of at least one of said arrays to position said resilient finger members substantially perpendicularly to the ground and thereafter to move said perpendicularly positioned finger members transversely thereover from a position to a position proximate said mutually facing portions of said arrays.
34. Harvesting apparatus comprising:
 - a. a frame;
 - b. wheels connected to said frame enabling travel of said apparatus through a growing field of fruits; and
 - c. at least one pair of mutually facing movable endless webs supporting vegetation stripping means protruding from the web surface, said webs being carried by said frame for strippingly lifting fruits from plants in said growing fields as said webs move along said field with said plants entering between upwardly moving facing portions of said webs, said webs being generally upstanding, longitudinally elongated and substantially planar in the region of

their mutually facing.

35. Harvesting apparatus comprising:
 - a. a frame;
 - b. wheels connected to said frame enabling travel of said apparatus through a growing field of fruits; and
 - c. an endless movable array of finger members carried by said frame for contacting and strippedly lifting fruits from plants in said growing fields, said array being generally upstanding, longitudinally elongated and having at least a portion which is substantially planar along which said finger members endlessly move upwardly while strippedly lifting said fruits as said apparatus travels through said growing field.
36. Apparatus of claim 35 wherein said array comprises a continuous flexible web with a plurality of transversely elongated finger members connecting to and extending substantially transversely from said web.
37. Apparatus of claim 35 further comprising means for providing a directionally adjustable air current for lifting and directing harvested fruits carried by and exiting from said array at the upper extremities thereof towards a collection area.
38. Apparatus of claim 35 wherein said finger members are flexible.
39. Apparatus of claim 36 wherein said finger members are flexible.
40. Apparatus of claim 37 wherein said finger members are flexible.
41. A method of harvesting comprising:
 - a. advancing a harvester carrying an endless web having fingers extending

generally outwardly therefrom through a growing field;

- b. moving said web upwardly along a portion of an endless path having a generally planar portion which is substantially aligned with rows of growing crops in said field while said harvester advances through said field; and
- c. positioning said planar portion of said web sufficiently adjacent to said growing crops while said harvester continues advancing through said field that said fingers traveling upward with said web intersect said crops and comb therefrom fruits growing thereon.